

FIG. 1A



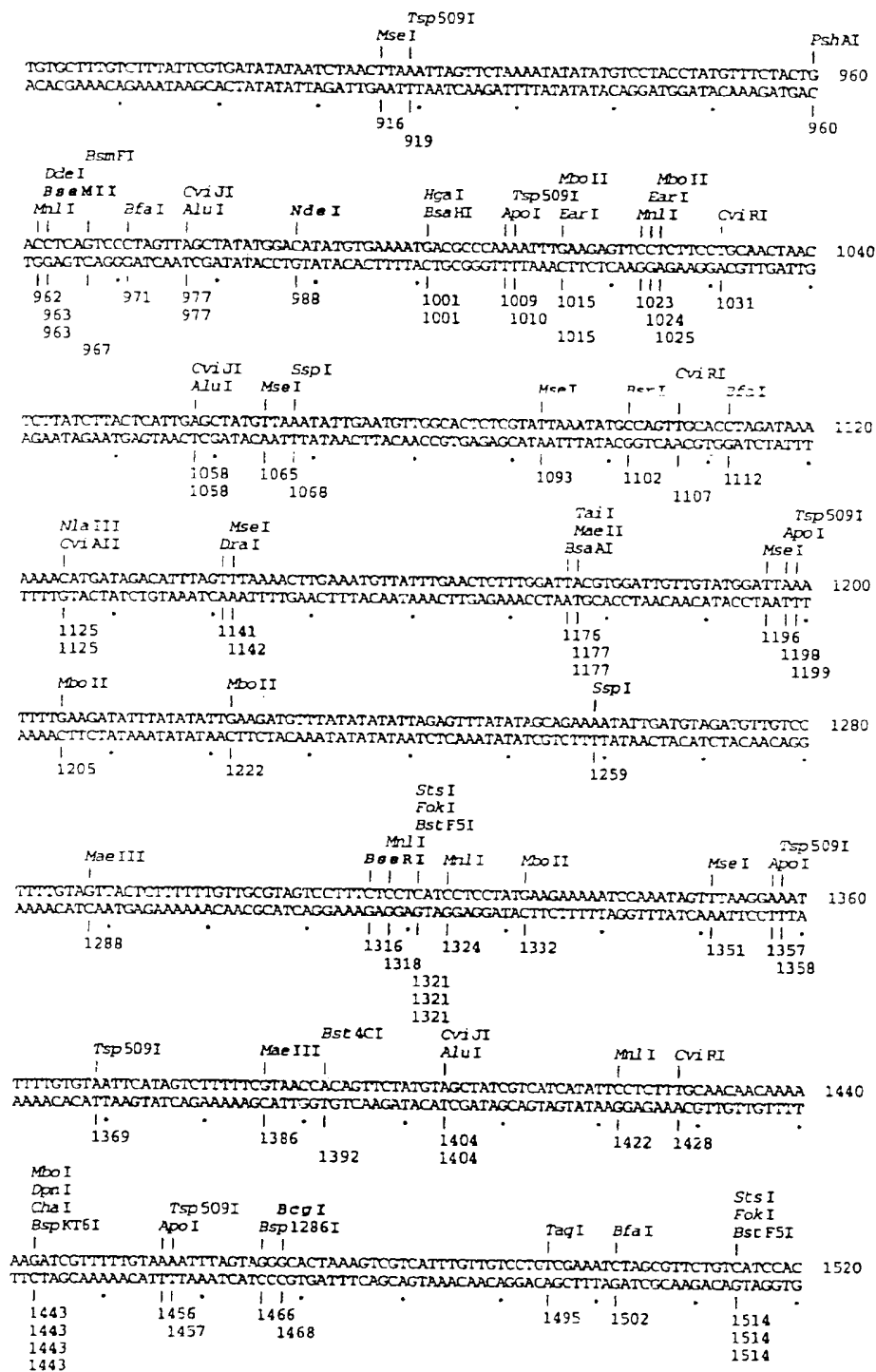


FIG. 1C

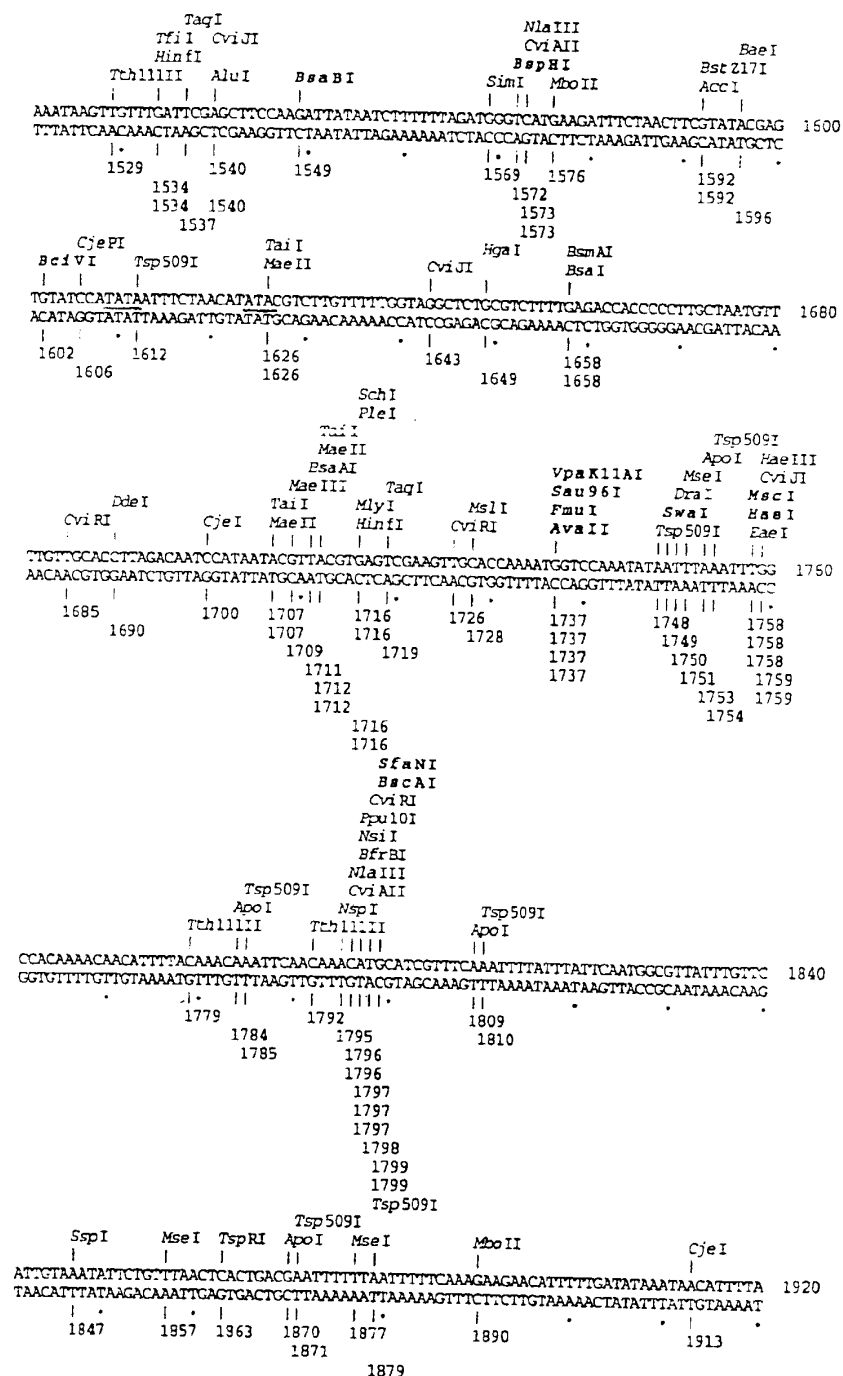


FIG.1D

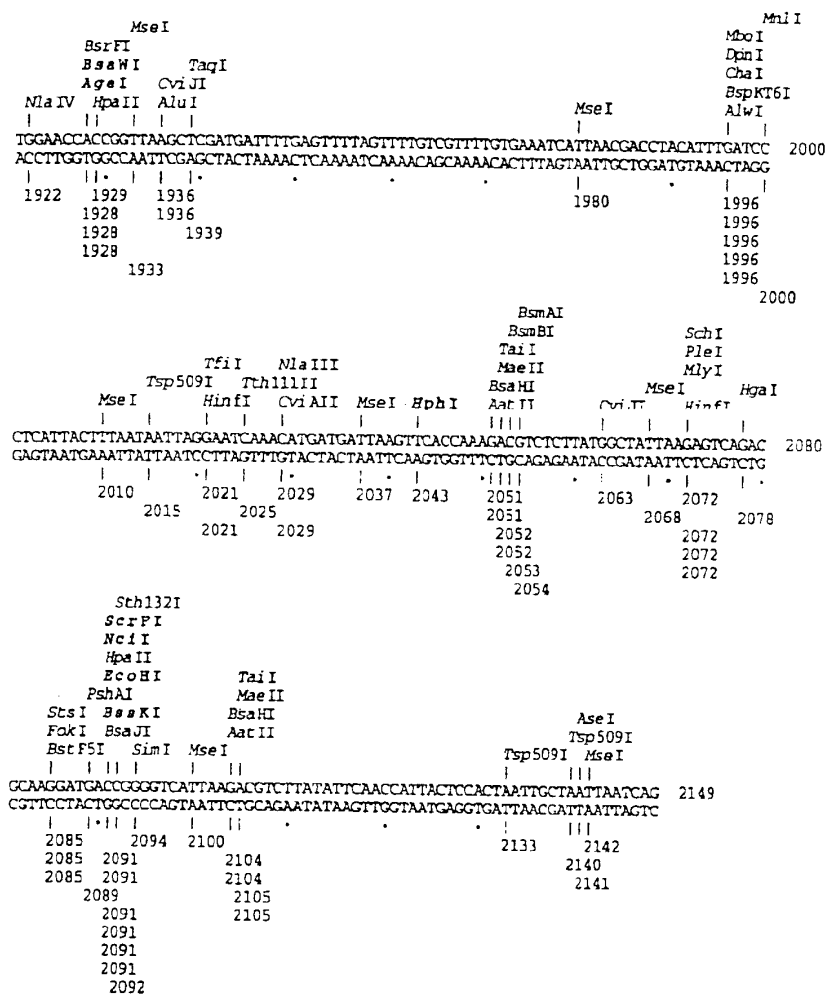
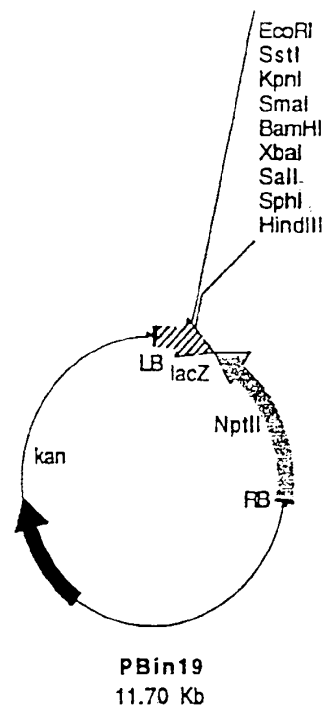
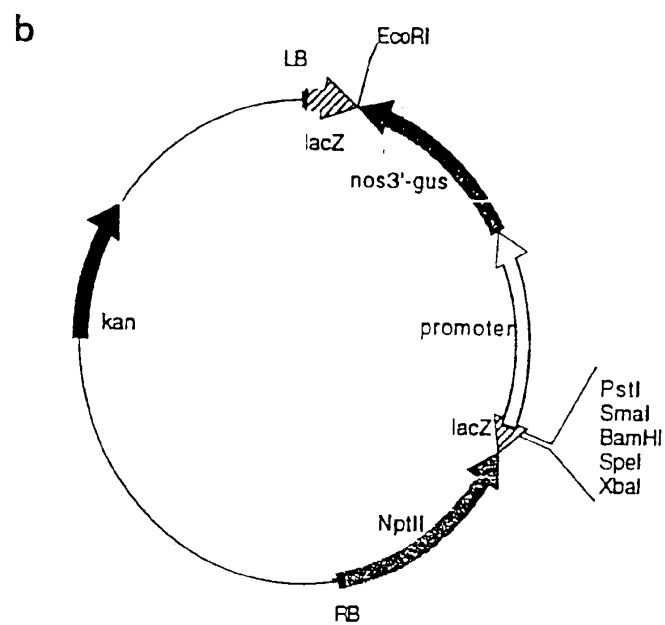


FIG. 1E

**a**



**FIG. 2A**



**PBin19-insert2**

16.00 Kb

**FIG. 2B**

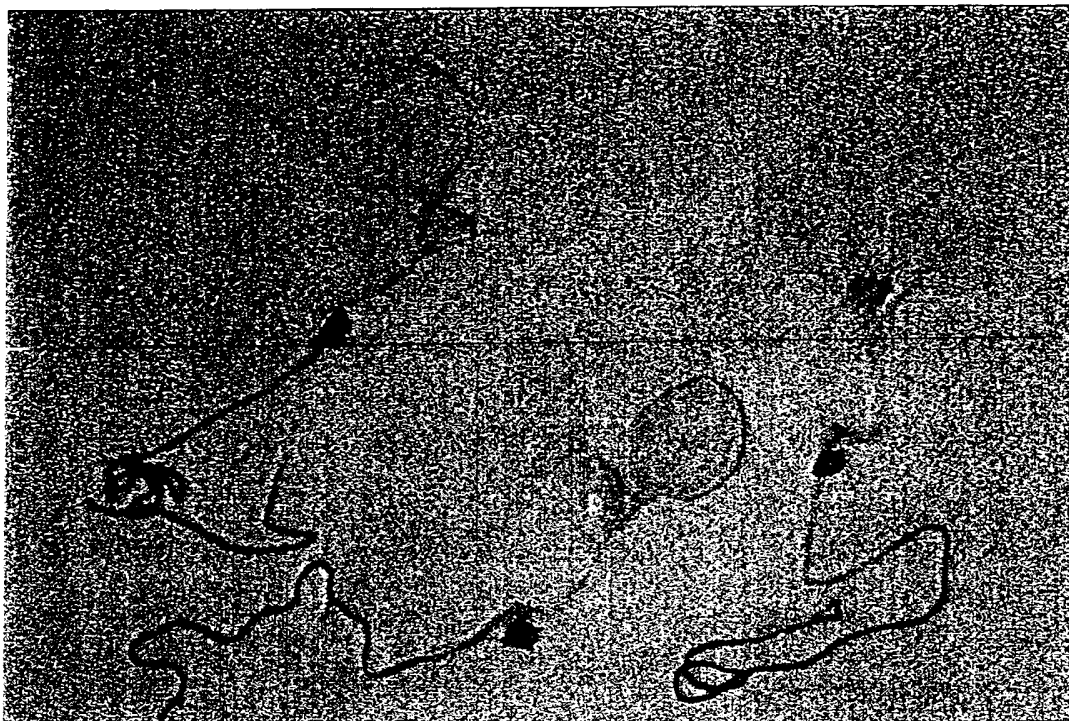
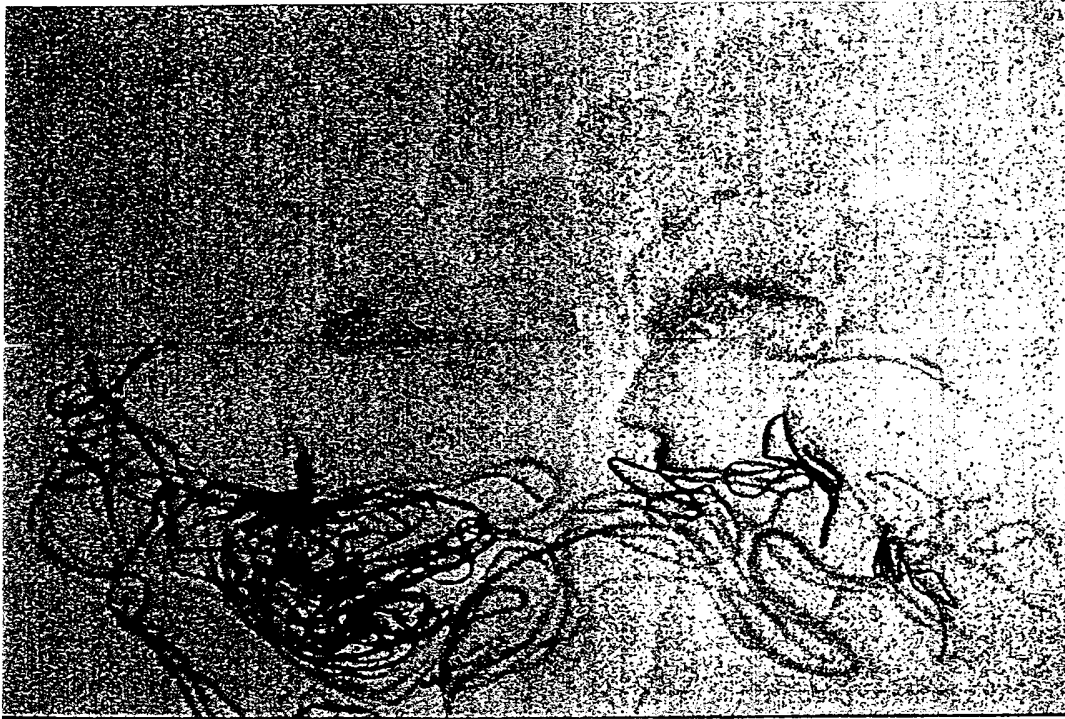


FIG. 3A

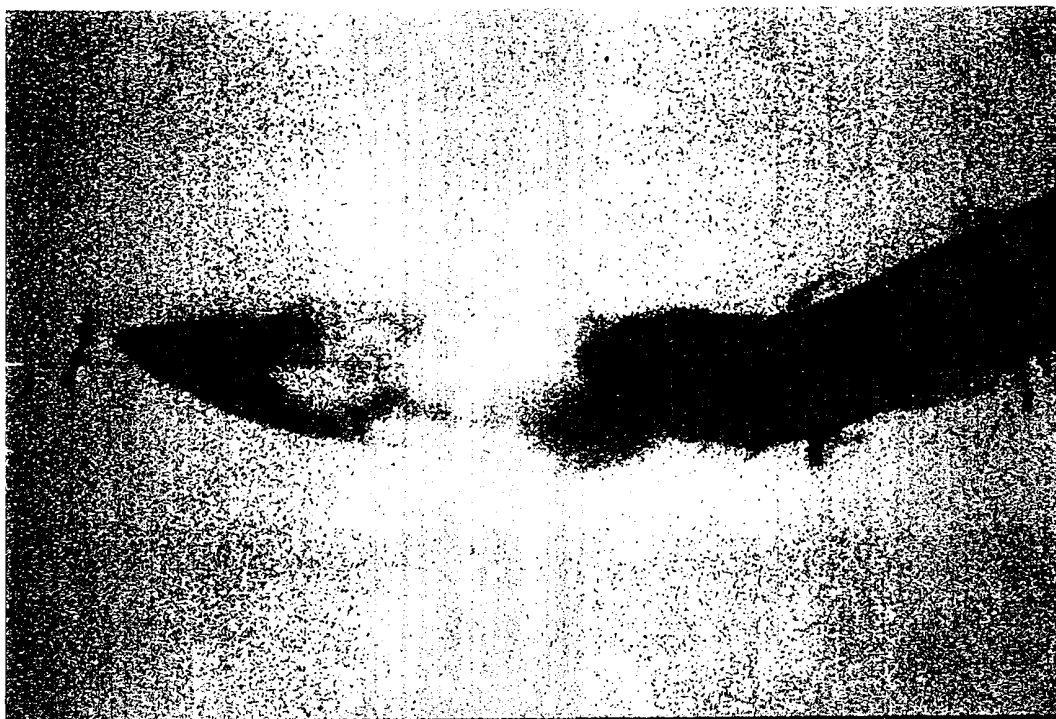




**FIG. 3B**



FIG. 3C



**FIG. 3D**

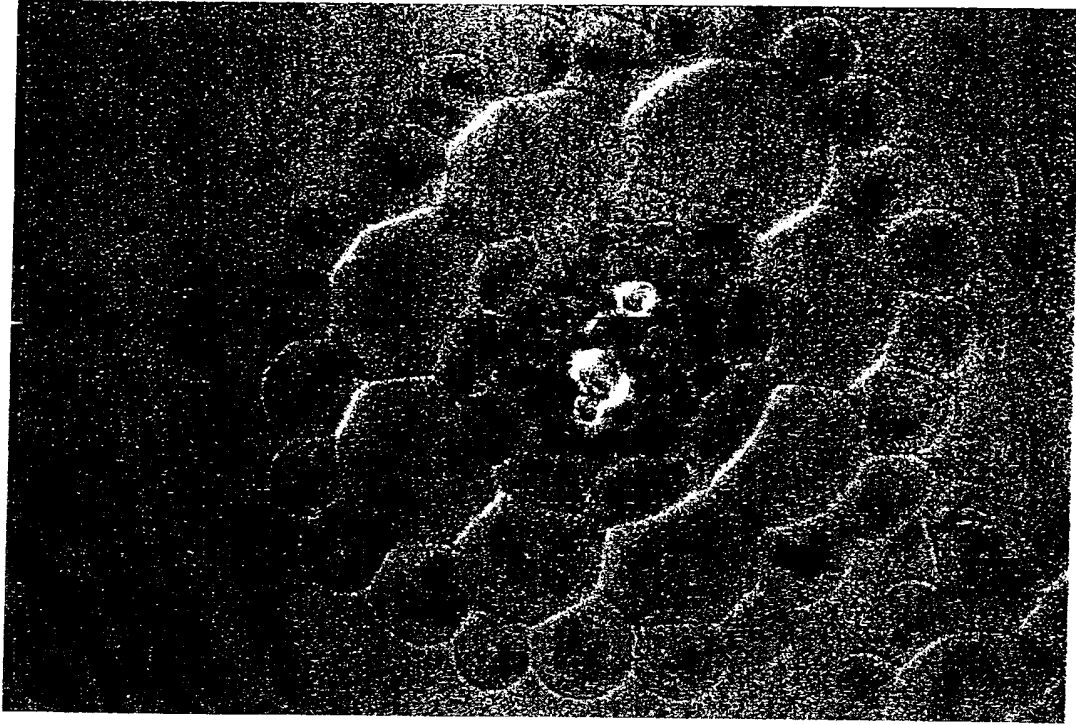


FIG. 4

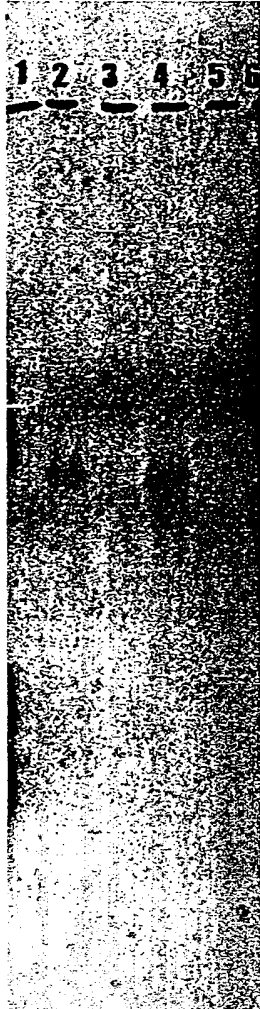
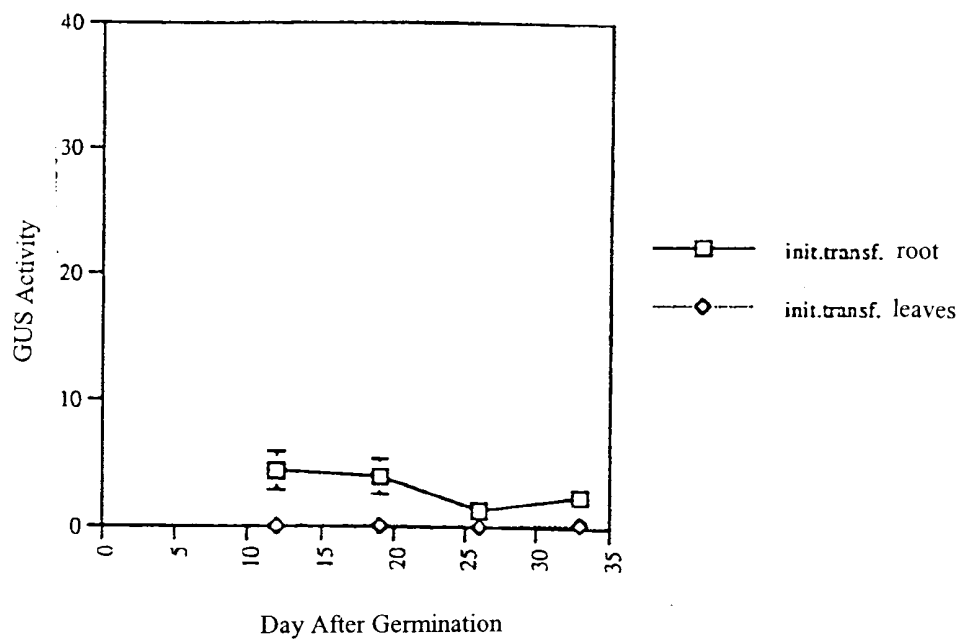
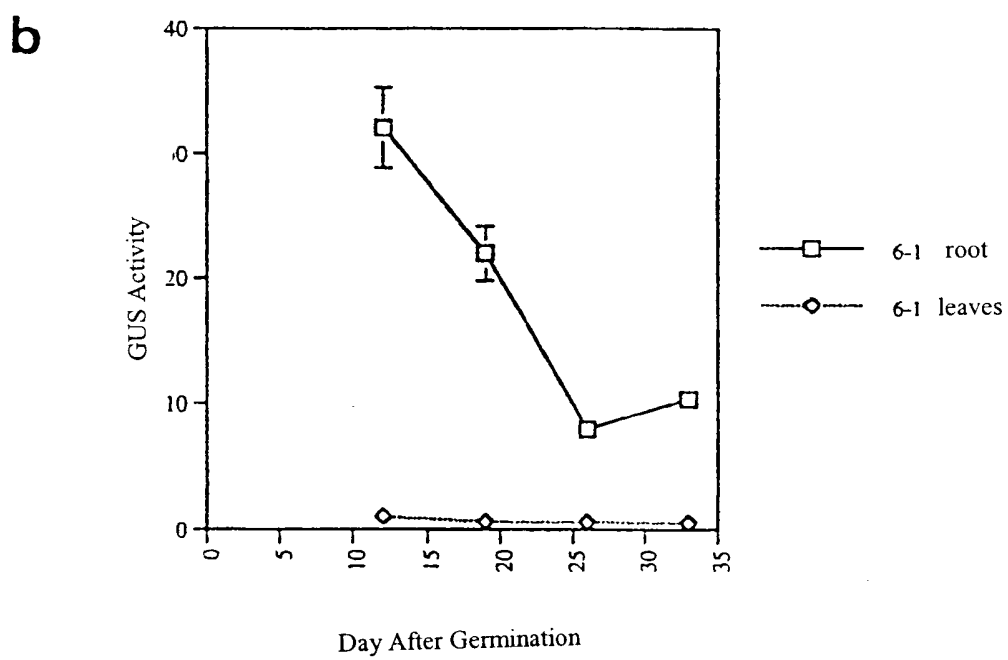


FIG. 5

**a**



**FIG. 6A**



**FIG. 6B**

C

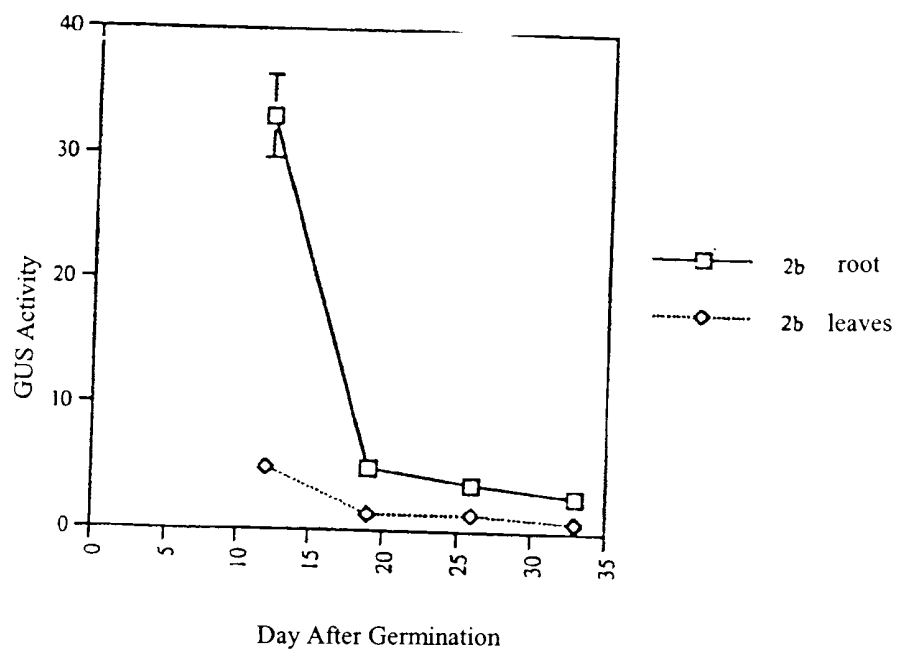


FIG. 6C



a

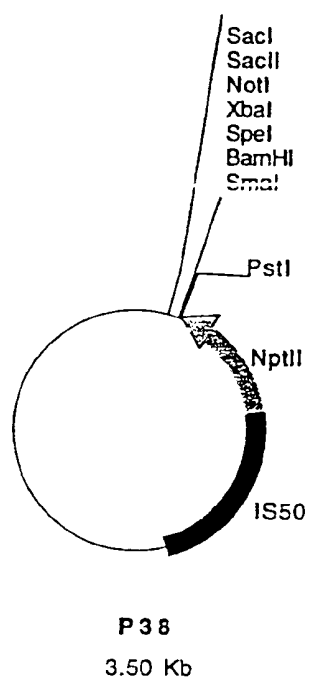
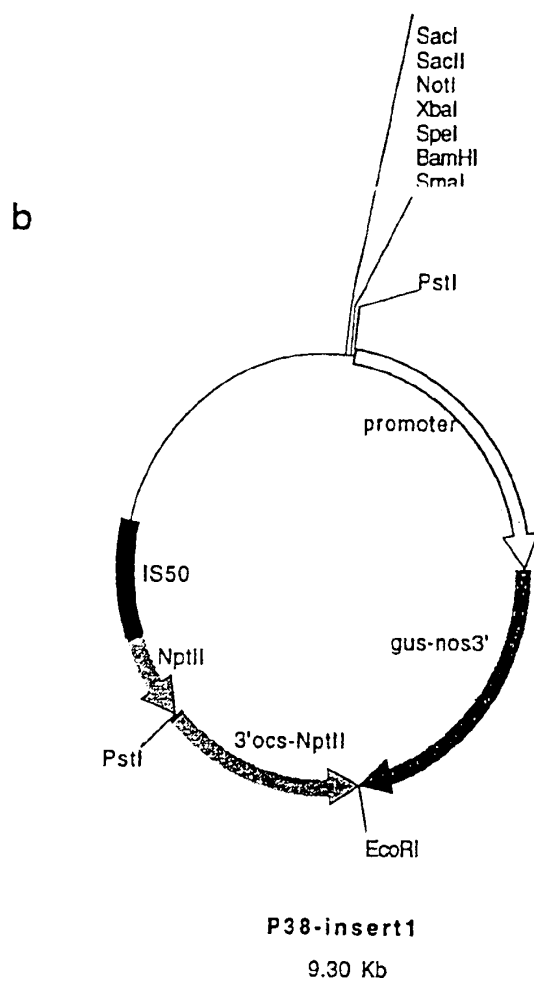


FIG. 7A



**FIG. 7B**

pgKB5T-DNA

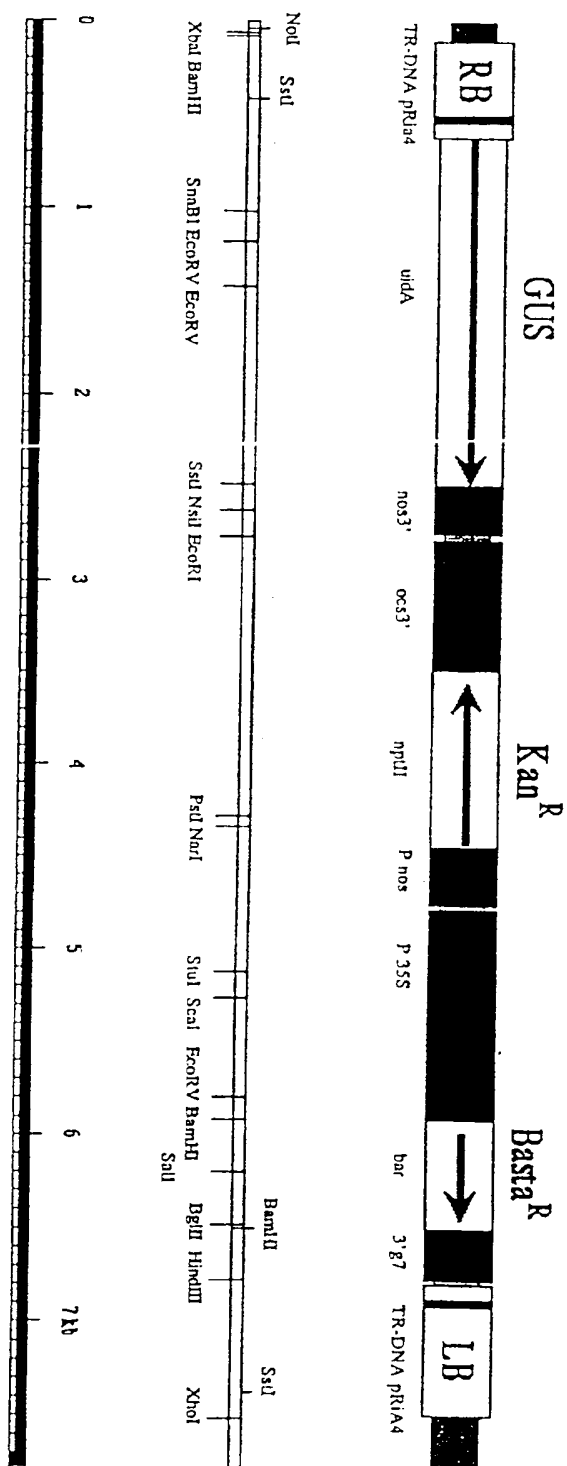


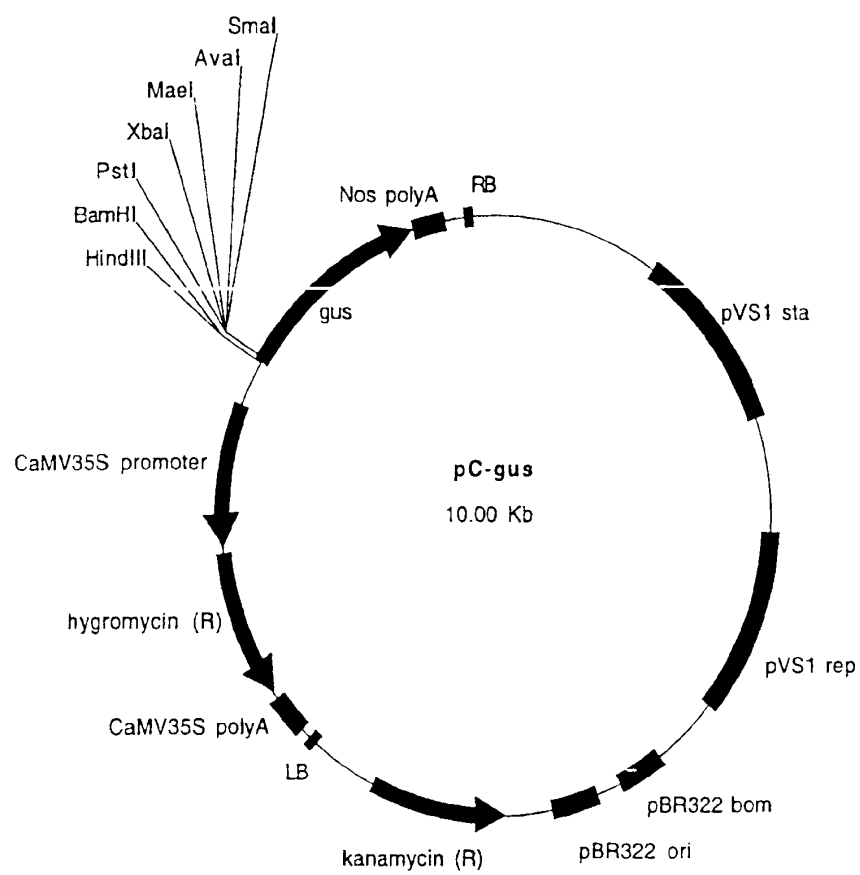
FIG. 8

1 GGAAACAGCT ATGACCATGA TTACGCCAAG CTCGGAATTA ACCCTCACTA AAGGGAACAA  
51 AAGCTGGAGC TCCACCGCGG TGGCGGCGC TCTAGAGGAT CCCCCACAG ACAGCTCCGT  
121 AGCCCTCGTT CTCCTTGGAG TTCTTCGGGA AATGGATCTT TCGATTCCCG ATGATGTCTC  
181 TCTTATCTGC TTTGACGACG CCGACTGGAC ATCCGCTATA ACGCCGCCAT TGACCGTGAT  
241 TTCCGAACCT GTCAGGGATC TCGCGACGGC TCCCACAGAA GACCTGATCG CCCGCTTAAA  
301 GGGCGAGACT TCAGCCCCAC CCAAGGAAAC TCTTCTCCCG GCGGTTCTCA TAGAGCGCGG  
361 TTCCGTAAGC GGTTCCTCGC AAGGTGCGGG TTGCATACCG AACTCGCGAA ACGTCGCGA  
421 CTGAGCTCCC GAGGCGCGTT GACAAGATGC CACGAAGGGA ATGGAAGACA GCCGATATTG  
481 CAATTGTCTT CGTGGACTGC TTTCGGGACG TAAGGCGCAA GCCATCATCA CCGCGTCCCT  
541 AAACAAACAT ACCTCCACAC AAATTTATCT ACCTGACCAC AAGATATATC CTGTACACG  
601 ATTTATTAAA CGCTGCACIT GGGGTGCTCA G/TCCCTTATG TTACGTCTCG TAGAAACCCC  
661 AACCCGTGAA ATCAAAAAAC TCGACGGCCT GTGGGCATTG AGTCTGGATC GCGAAAACCTG  
721 TGAATTTGAT CAGCGTTGGT GGGAAAGCGC GTTACAAGAA AGCCGGGCAA TTGTGTGCGC  
781 AGGCAGTTTT AACGATCAGT TCGCCGATGC AGATATTCGT AATTATGCGG GCAACGTCTG  
841 GTATCAGCGC GAAGTCTTTA TACCGAAAGG TTGGGCAGGC CAGCGTATCG TCGTCCGTTT  
901 CGATGCGGTC ACTCATTIACG CCAAAGTGTG GGTCAATAAT CAGGAAGTGA TGGAGCATTA  
961 GGGCGGCTAT ACGCCATTITG AAGCGATGT CACGCGTAT GTTATTCCCG GGAAAAGTGT  
1021 ACGTATCACC GTTTGTGTGA ACAACGAACT GAAGTGGCAG ACTATCCCGC CCGGAATGGT  
1081 GATTATCCGAC GAAAACGGCA AGAAAAAGCA GTCTTACTTC CATGATTTCT TTAACATATG  
1141 CGGAATCCAT CGCAGCGTAA TGCTCTACAC CACGCGGAAC ACCTGGGTGG ACGATATCAC  
1201 CGTGGTGACG CATGTGCGGC AAGACGTGTA CCACGCTCT GTTGACTGGC AGGTGGTGGC  
1261 CAATGGTGAT GTACGCGTTG AACTGCGTGA TCGCGATCAA CAGGTGGTTG CAACTGGACA  
1321 AGGCATGAC GGGACTTTGC AAGTGGTGAA TCCGCACCTC TGGCAACCGG GTGAAGGTGA  
1381 TCTCTATGAA CTGTGCGTCA CAGCCAAAAG CCAGACAGAG TGTGATATCT ACCCGCTTCG  
1441 CGTGGGCATC CGGTCACTGG CAGTGAAGGG CCAACAGTTC CTGATTAAAC ACAAAACGTT  
1501 CTACTTTACT GGTCTTGGTC GTCATGAAGA TCGGACTTGA CGTGGCAAAG GATTTCGATAA  
1561 CGTGTGATG GTGCACGACC ACGCATTAAT GGACTGGATT GGGGCCAACT CCTACCGTAC  
1621 CTCGCATTAC CCTTACGCTG AAGAGATGCT CGACTGGGCA GATGAACATG GCATCGTGGT  
1681 GATTGATGAA ACTGCTGCTG TCGGCTTTAA CCTCTCTTTA GGCATTGGTT TCGAAGCGGG  
1741 CAACAAGCGG AAAGAAGTGT ACAGCGAAGA GGCAGTCAAC GGGGAAACTC AGCAAGCGCA  
1801 CTTACAGGCG ATTAAGAGC TGATAGCGCG TGACAAAAAC CACCAAGCG TGGTGATGTG  
1861 GATTATTCGC AACGAACCGG ATACCGGTCC GCAAGTGCAC GGGAATATTT CGCCACTGCG  
1921 GGAAGCAACG CGTAAACTCG ACCCGACGCG TCCGATCACC TCGCTCAATG TAATGTTCTG  
1981 CGACGCTCAC ACCGATACCA TCAGCGATCT CTTTGATGTG CTGTGCCTGA ACCGTTATTA  
2041 CGGATGGTAT GTCCAAAGCG GCGATTTGGA AACGGCAGAG AAGGTACTGG AAAAAGAAGT  
2101 TCTGGCCTGG CAGGAGAAAC TGCAACAGCC GATTATCATC ACCGAATACG GCGTGGATAC  
2161 GTTAGCCGGG CTGCACTCAA TGTAACCGA CATGTGGAGT GAAGAGTATC AGTGTGCATG  
2221 GCTGGATATG TATCACCGCG TCTTTGATCG CGTCACGCGC GTCGTCGGTG AACAGGTATG  
2281 GAATTTGCGC GATTTTGGCA CCTCGCAAGG CATATTGCGC GTTGGCGGTA ACAAGAAAGG  
2341 GATCTTCACT CGCGACCGCA AACCGAAGTC GGCGGCTTTT CTGCTGCAAA AACGCTGGAC  
2401 TGGCATGAAC TTCCGTGAAA AACCGCAGCA GGGAGGCAAA CAATGAATCA ACAACTCTCC  
2461 TGGCGCACCA TCGTCGGCTA CAGCCTCGGT GGGGAATTGA GCTCGATCGT TCAAACATTT  
2521 GGCAATAAAG TTCTTTAAGA TTGAATCCTG TTGCGGTCT TCGCATGATT ATCATATAAT  
2581 TTCTGTGTA TTACGTTAAG CATGTAATTA TTAACATGTA ATGCATGACG TTATTTATGA  
2641 GATGGGTTTT TATGATTAGA GTCCCGCAAT TATACATTTA ATACCGGATA GAAAACAAAA  
2701 TATAGCGCGC AACTAGGAT AAATATTCG CCGCGGTGTC ATCTATGTTA CTAGATCGAA  
2761 TT/CGATCGAG GGGATCGAGC CCTGCTGAG CCTCGACATG TTGTGCAAAA ATTCGCCCTG  
2821 GACCCGCCCA ACGATTTGTC GTCACTGTCA AGGTTTGACC TGCATTTCAT TTGGGGCCCA  
2881 CATAACCAA AAAAATGCTG CATAATTCTC GGGGCAGCAA GTCGGTTACC CGGCCGCGT  
2941 CCGTGGACCG GTTGAATGGT GCCCGTAAC TCCGTTAGAG CGGACGGCCA ATACTCAACT  
3001 TCAAGGAATC TCACCCATGC GCGCGGCGG GGAACCGGAG TTCCCTTCAG TGAACGTTAT  
3061 TAGTTCCCGC CTCGGTGTGT CGTAGATACT AGCCCCCTGG GCCTTTTGAA ATTTGAATAA  
3121 GATTTATGTA ATCAGTCTTT TAGGTTTGAC CGGTCTGACC GCTTTTTTTA AAATTGGATT  
3181 TGTAATAATA AAACGCAATT GTTTGTTATT GTGGCGCTCT ATCATAGATG TCGCTATAAA  
3241 CCTATTCAGC ACAATATATT GTTTTCATT TAATATTGTA CATATAAGTA GTAGGGTACA  
3301 ATCAGTAAAT TGAACGGAGA ATATTATTC TAAAAATACG ATAGTAACGG GTGATATATT  
3361 CATAGAAATG AACCGAAACC GCGGTGAAGG ATCTGAGTCA CACATGCTCA GGTTTTTFAC  
3421 AACGTGCACA ACAGAATTGA AAGCAAATAT CATGCGATCA TAGGCGTCTC GCATATCTCA  
3481 TTAAAGCAGG GGGTGGGCGA AGAACTCCAG CATGAGATCC CCGCGCTGGA GGATCATCCA  
3541 GCCGCGTCC CGGAAAACGA TTCCGAAGCC CAACCTTTCA TAGAAGGCGG CCGTGGAAATC  
3601 GAAATCTCGT GATGGCAGGT TGGCGTCCG TTGGTCCGTC ATTTCAAGCC CCAGAGTCCC

FIG. 9A

3661	GCTCAGAAGA	ACTCGTCAAG	AAGGCGATAG	AAGGCGATGC	GCTGCGAATC	GGGAGCGGCG
3721	ATACCGTAAA	GCACGAGGAA	GCGGTACAGCC	CATTTCGCCG	CAAGCTCTTC	AGCAATATCA
3781	CGGGTAGCCA	ACGCTATGTC	CTGATAGCGG	TCCGCCACAC	CCAGCCGGCC	ACAGTCGATG
3841	AATCCAGAAA	AGCGGCCATT	TTCCACCATG	ATATTTCGGCA	AGCAGGCATC	GCCATGGGTC
3901	ACGACGAGAT	CCTCGCCGTC	GGGCATGCGC	GCCTTGAGCC	TGGCGAACAG	TTCCGCTGGC
3961	GCGAGCCCT	GATGCTCTTC	GTCCAGATCA	TCCTGATCGA	CAAGACCGC	TTCCATCCGA
4021	GTACGTGCTC	GCTCGATGCG	ATGTTTCGCT	TGGTGGTCGA	ATGGGCAGGT	AGCCCGATCA
4081	AGCGTATGCA	CGCCGCCGAT	TGCATCAGCC	ATGATGGATA	CTTTCTCGGC	AGGAGCAAGG
4141	TGAGATGACA	GGAGATCCTG	CCCCGGCACT	TCCGCCAATA	GCAGCCAGTC	CCTTCCCGCT
4201	TCAGTGACAA	CGTCGAGCAC	AGCTGCGCAA	GGAACGCCCG	TGCTGGCCAG	CCACGATAGC
4261	CGCGCTGCC	CGTCTGCGAG	TTCAATTCAGG	GCACCGGACA	GCTCGGTCTT	GACAAAAAGA
4321	ACCGGGCGCC	CCTGCGCTGA	CAGCCGGAAC	ACGGCGGCAT	CAGAGCAGCC	GATTGTCTGT
4381	TGTGCCCAGT	CATAGCCGAA	TAGCCTCTCC	ACCCAAGCGG	CCGGAGAAC	TGCGTGCAAT
4441	CCATCTTGTT	CAATCCACAT	GATCATGGGC	CGGATCTTTG	ATTGAGAGTG	AATATGAGAC
4501	TCTAATTGGA	TACCGAGGGG	AATTTATGGA	ACGTCAGTGG	AGCATTTTITG	ACAAGAAATA
4561	TTTGCTAGCT	GATAGTGACC	TTAGGCGACT	TTTGAACGCG	CAATAATGGT	TTCTGACGTA
4621	TGTGCTTAGC	TCATTAAACT	CCAGAAACCC	GCGGCTGAGT	GGCTCCTTCA	ATCGTTGCGG
4681	TTCTGTCACT	TCCAAACGTA	AAACGCGTTG	TCCCGCGTCA	TCCGCGGGGG	TCATAACGTG
4741	ACTCCCTTAA	TTCTCCGCTG	ATGATCCTGT	TTCTGTGTG	AAATTGTTAT	CCGCTCACAA
4801	TTCCACACAT	TATACGAGCC	GGAAGCATAA	AGTGTAAAGC	CTGGGGTGCC	TAATGAGTGA
4861	GCTAACTCAC	ATTAATTGCG	TTGCGCTCAC	TGCCCCGTTT	CCAGTCGGGA	AACCTGTCTG
4921	GCCAGCTGCA	TTAATGAATC	GGAATTGACG	GATCTCCTTT	GCCTCCGAGA	TCACCATGGA
4981	CGACTTTCTC	TATCTCTACG	ATCTACCAAC	AACTTTCCAC	CCCAACCTC	ACCATACCAT
5041	GATACCAACC	GATAATGAGA	AGATTAGCCT	CTTCAATTTT	AGAAAGAAATG	CTGACCCACA
5101	GATGGTTAGA	GAGGCCTACG	CGGCAGGTCT	CATCAAGACG	ATCTACCCGA	GTAATAATCT
5161	CCAGGAGATC	AAATACCTTC	CCAAGAAGGT	TAAAGATGCA	GTCAAAAGAT	TCAGGACTAA
5221	CTGCATCAAG	AACACAGAGA	AAGATATATT	TCTCAAGATC	AGAAGTACTA	TTCCAGTATG
5281	CAGGATTCAA	GGCTTGCTTC	ATAAACCAAG	GCAAGTAATA	GAGATTGGAG	TCTCTAAGAA
5341	AGTAGTTTCT	ACTGAATCAA	AGGCCATGGA	GTCAAAAATT	CAGATCGAGG	ATCTAACAGA
5401	ACTCGCCGTG	AAGACTGGCG	AACAGTTTAT	ACAGAGTCTT	TTACGACTCA	ATGACAAGAA
5461	GAAAATCTTC	GTCAACATGG	TGGAGCACGA	CACCTCTCGT	TACTCCAAGA	ATATCAAAGA
5521	TACAGTCTCA	GAAGACCAAA	GGGCTATTGA	GACTTTTCAA	CAAAGGGTAA	TATCCGGGAA
5581	CCTCTCTCGA	TTCCATTGCC	CAGCTATCTG	TCACTTCATC	AAAAGGACAG	TAGAAAAGGA
5641	AGGTGGCACC	TACAAATGCC	ATCATTGCGA	TAAAGGAAAG	GCTATCGTTC	AAGATGCCTC
5701	TGCGGACAGT	GGTCCCAAAG	ATGGACCCCC	ACCCACGAGG	AGCATCGTGG	AAAAAGAAGA
5761	CGTTCCAACC	ACGCTTTCAA	AGCAAGTGGA	TTGATGTGAT	ATCTCCACTG	ACCTTAAGGA
5821	TGACGCACAA	TCCCACTATC	CTTCGCAAGA	CCCTTCTCT	ATATAAGGAA	GTTTCAATTT
5881	TTTGAGAGAG	ACACGCTGAA	ATCACCAGTC	TCTCTCTACA	AATCGGATCC	ATGAGCCCAG
5941	AACGACGCCC	GGCCGACATC	CGCCGTGCCA	CCGAGGCGGA	CATGCCGGCG	GTCTGCACCA
6001	TGTCACCA	CTACATCGAG	ACAAGCACGG	TCAACTTCG	TACCGAGCCG	CAGGAACCGC
6061	AGGAGTGGAC	GGACGACCTC	GTCCGTCTGC	GGGAGCGCTA	TCCCTGGCTC	GTCCGCGAGG
6121	TGACCGCGGA	GGTCGCGCGG	ATCGCCTACG	CGGGCCCTTG	GAAGGCACGC	AACGCTACG
6181	ACTGGACGGC	CGAGTCGACC	GTGTACGTCT	CCCCCCGCCA	CCAGCGGACG	GGACTGGGCT
6241	CCACGCTCTA	CACCCACCTG	CTGAAGTCCC	TGGAGGCACA	GGGCTTCAAG	AGCGTGGTCC
6301	CTGTCACTCG	GCTGCCCAAC	GACCCGAGCG	TGCGCATGCA	CGAGGCGCTC	GGATATGCCC
6361	CCCGCGGCAT	GCTGCGGCGG	GCCGGCTTCA	AGCACGGGAA	CTGGCATGAC	GTGGGTCTCT
6421	GGCAGCTGGA	CTTCAGCCTG	CCGGTACCGC	CCCGTCCGCT	CCTGCCCGTC	ACCGAGATCT
6481	GATCTCACGC	GTCTAGGATC	CGATGGATCC	CCCGATGAGC	TAAGCTAGCT	ATATCATCAA
6541	TTTATGTATT	ACACATAATA	TGCACTCAG	TCTTTCACT	ACGGCAATGT	ACCGACTGAT
6601	ATAATCAGTT	ATTGAAATAT	TTCTGAATTT	AAACTTGCA	CAATAAATTT	ATGTTTTTGC
6661	TTGGACTATA	ATACCTGACT	TGTTATTTTA	TCAATAAATA	TTTAAACTAT	ATTTCTTTTC
6721	AGATGGGAAT	TAACATCTAC	AAATTGCCCT	TTCTTATCGA	CCATGTACAT	CAAGCTTATC
6781	GATACCGTCG	GCTATTGCTA	ATAGGACACT	GGGATTCTGC	TTGGACAAC	TTCTTCTTCA
6841	TCTAAGCGTA	GACAAACCTC	AACTGGAAAC	GGGCCGGACT	CCAGGGCGTG	TGCCAGGTGC
6901	CCACGGAATA	GTTTTGGCCA	GACCTTGAA	AATCCGATTC	AGTACAATCG	ATTGCCCTCA
6961	TTTTTACGTT	GGCATATATC	CTGCCAAACA	GCCAACAACG	CGCGTGCGGT	GAATAGGAAA
7021	GCGTTTGAGT	TGCTTGCTCA	TATCGTGACG	GTGACAGCA	CAGGTTGACC	GCTTGATGAT
7081	TGCTACGAGC	CGCCAAACAT	TGGCTGTCTG	AATGATATAC	CATGTCAGAA	CAGCAATCCG
7141	ATGGGGCGGA	AAGCATTATC	TTAATGCACA	CGGAAATGGC	GCGTGGGTGG	GTGGAATACA
7201	CCGACATAGA	GGCCGTAAGT	TCTGCTAGGT	CATCGTCGGA	AAGGTGGCAG	CAGGCGCACG
7261	GCTGTGGCCT	CTTGCTCTTT	CAGCGTGAAA	TGCGTGTGTA	AAGAATAATC	GAAGAGAGCG
7321	TCCGCTCGAC	ACCTTCAATT	ATGCCGATTT	GATCGATGAA	CTGATCGAGC	TCTGAAATCG
7381	AAGGGGCTTC	GATAATCGCA	ATCAAATCAA	AAGTGCCACT	CACAGAATGA	AGAGCGATAA
7441	CGGCGGTGAC	CTTCCCAAGG	GAGGCGGTCA	CCTGTGAAAG	CGCCTTCGTA	ATGGTGATCA
7501	GAATATGGGC	TGCAACCAAG	CTCGAGACCT	CGAGGGGGGG	CCCCGTACCC	AATTTCGCCCT
7561	ATAGTGAGTC	GTATTACAAT	TCACTGGCCG	TGTTTTTAC		

FIG. 9B



**FIG. 10**